

Abstract

^A ~~The invention relates to a method~~ ^{is described} for communication among
1 ~~equal-access stations (2, ..., 12)~~ of a ring-shaped, serial
A
5 fiber-optic bus and to a device for carrying out this
communications method. ^{One} ~~According to the present invention, one~~
A station ~~(2)~~, during a bus cycle, generates container messages
A ~~(CT)~~ in a strictly time-cyclical manner, addresses them, and
A provides them to the serial bus, and it transmits a
10 synchronization message at the end of the bus cycle time, each
station ~~(2, ..., 12)~~ writing its data into container messages
A ~~(CT)~~ that are addressed to it, and each station ~~(2, ..., 12)~~,
A depending on its read authorization, reading the container
A messages ~~(CT)~~ of the serial bus, all the data that have been
15 read in the stations ~~(2, ..., 12)~~ being imported with the
assistance of the synchronization message. Thus, equal-access
stations of a ring-shaped, serial fiber-optic bus can exchange
data, in direct-access, extremely quickly and in a strictly
time-cyclical manner.

20 ~~Figure 1~~